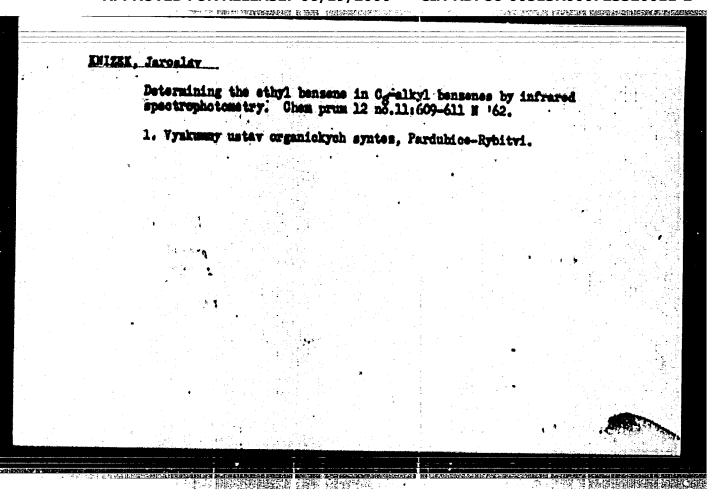
KNIZEK, J.; CHVALOVSKY, V.; HORAK, M.

Organosilicon compounds. Pt. 37. Coll Cz Chem 29 no.12:2935-2549
D '64.

1. Research Institute of Organic Syntheses, Pardubici-Rybitvi.



PROVAZNIK, Jan; KNIZEE, Miroslav

Rapid complexometric determination of metallic ingredients in iron and cobalt milicides. Chem listy 58 no.10:1158-1161 0 164.

1. A.S. Popov Research Institute of Telecommunication Engineering, Prague.

2/008/60/000/04/009/019 BO34/E416 AUTHOR: TITLE: PERIODICAL: Chemické listy, 1960, Nr 4, pp 383-385 The author describes a method of producing porous polyethylene filters based on the method in Ref 2. ABSTRACT: In principle, a mixture of finely ground polyethylene and sodium chloride (1:4) of particle size <0.01 mm is heated to 140 to 145°C (30 min for disc, 60 min for cone) in suitable, lubricated formers, then treated with hot water for 20 to 30 min to remove the NaCl, a suitable organic solvent to remove the lubricant, then hot HCl (1:1) and finally distilled water - the filter (= Jena sintered glass filter Nr 2) is ready for use. Two laboratory formers are described. Fig 1 shows the production of a disc filter (a) lower part of Petri dish, (b) Petri dish lid, (c) mixture of polyethylene and sodium chloride. Fig 2 shows the production of a cone filter (a) glass funnel with stem cut away and apex sealed to sharp point, (b) mixture of polyethylene and sedium chloride, (c) glass filter funnel, (d) rubber

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Z/008/61/000/001/005/005 E112/E253

AUTHORS:

Provazník, Jan and Knížek, Miroslav

TITLE:

Copper Determination in Highly Purified Antimony

PERIODICAL:

Chemické listy, 1961, No. 1, pp. 79-82

TEXT: Highly purified antimony derivatives are gaining importance as semiconductors, but their conductivity characteristics are adversely affected by traces of impurities. Copper, for instance, produces in semiconductors centres of recombination, which influence their physical properties. The literature contains only a few references to the detection of traces of impurities in antimony. The authors describe a spectrophotometric determination of copper in pure antimony, permitting its detection at concentrations of 5.10⁻⁵-2.10⁻⁵%. The method is based on extractions with sodium diethyl-dithiocarbamate and its determination, in the extracts, by the UNICAM SP 600 spectrophotometer, using calibration curves from standard solutions: an 0.5 g antimony sample was dissolved in a silica beaker in 1 ml.HNO₃, 1.5 ml 10 M-HCl and 6.5 ml of a solution of ammonium tartrate. After concentrating to half its volume, the solution was transferred with distilled water to a 100 ml separating funnel. After Card 1/2

Z/008/61/000/001/005/005 B112/B253

Copper Determination in Highly Purified Intimony addition of 10 ml Complexon III, 5 ml ammonium citrate and two drops cresol-red indicator, the solution was neutralized with purified ammonia. 5 ml of a 0.1% solution of Cupral (sodium diethyldithiocarbanate) and 3 ml chloroform were then added, and the chloroform extract separated after 2 minutes shaking. extraction was repeated twice and the combined extracts were for Cu determination. Methods for the purification of the reagents are described. Traces of copper are eliminated by extracting with Cupral. If the analysed sample contains more than 5 µg bismuth, this is removed by shaking the chloroform extracts with 5 ml 6M-HCl. A table summarizes the results and demonstrates the accuracy of the method. Acknowledgements are expressed to Engineer E. Rubes and Engineer V. Häckl for their interest in this work. There are 1 table and 11 references: 1 Czech and 10 non-Czech.

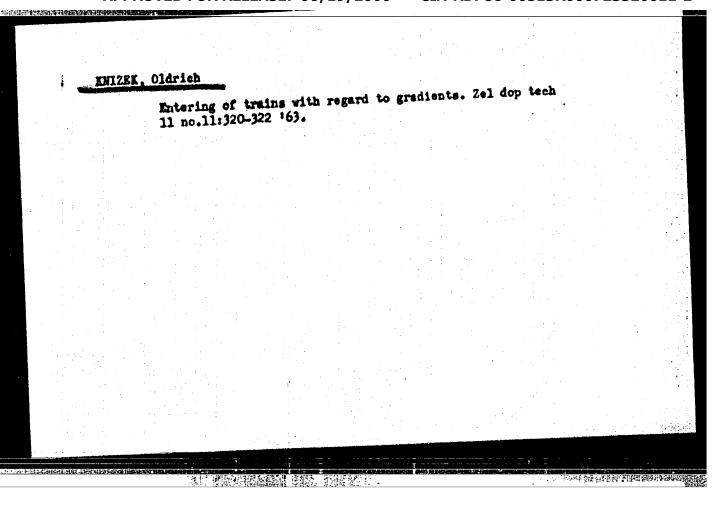
Výskumný ústav pro sdělovací techniku A.S.Popova, ASSOCIATION:

Praha

(A.S.Popov Telecommunication Research Institute,

Prague)

June 24, 1960



TOKAREVICH, E.N.; VASIL'IEVA, L.D.; FOROVA, Te.M.; BESSOMOVA, M.A.;

ENIZEL', E.G.

Epidemiological materials on Q fever in Lemingrad Province.

Trudy Lem,inst.epid.i mikrobiol. 20:1927 '59. (MIRA 16:1)

1. Is laboratorii osoboopasnykh instkesiy instituta imeni
Pastera i otdela osoboopasnykh insektsiy Lemingradskoy oblastnoy
sanitarno-epidemiologicheskoy stantsii.
(IENIMORAD PROVINCE—Q FEVER)

HORT, J.; HASEK, M.; KHIZETOVA, Poldsseritta Further immunological analysis of chicken embryonic parabionts. Folia biol. 7 no.51301-308 161.

1. Institute of Biology, Csechoslovak Academy of Sciences, Department of Experimental Biology and Genetics, Prague.

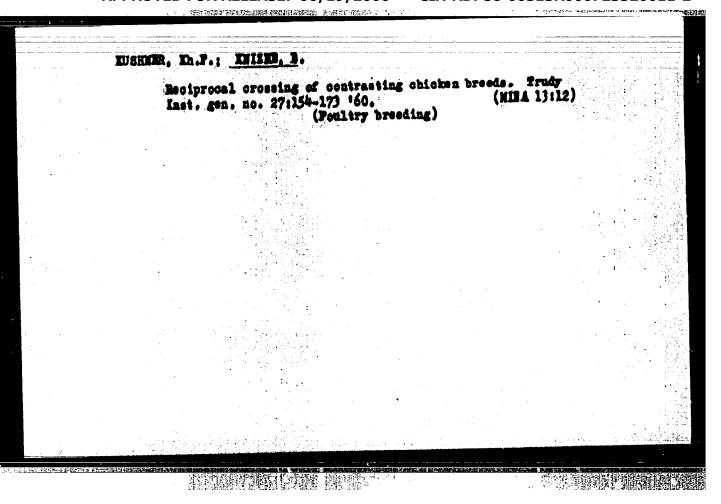
(PARABIOSIS) (DMUNITY) (ANTIGEN ANTIBODY REACTIONS)

CIA-RDP86-00513R000723320011-2" APPROVED FOR RELEASE: 06/19/2000

Artificial insemination of chickens. Pritsevodstve 8 no.9:23-25
(NIRA 11:10)

(Poultry breeding) (Artificial insemination)

KNIZHE, B., Cand of Bio Sci -- (diss) "Special Features of a Mixture of Interbreeding Contrasting Breeds of Chickens," Moscow, 1959, 20 pp (Moscow State Univ 18 Lamonosov) (KL, 2-60, 111)



 KNIZHRMKO	, M. (Nevinnomyssk)		
 B	y means of a tower grame. Posh-delo 8 no.5:18 My	'62. (MIRA 15:5)	
	(Fire extinction) (Building-Safety measures)		
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KNIZHKO, P. A. Cand. Chem. Sci.

Dissertation: "Palladium-Hydrogen Chloride as a Reagent for Alkaloids in Microchemical Analysis." Moscow Pharmaceutical Inst, 16 Jan 47.

SO: Vechernysys Moskva, Jan, 1947 (Project #17836)

EMIRHEO, P. O.; VASTUTINSKIY, A. I.; VOROB'TEVA, Yo. S.

Quantitative determination of assonobasic nercuric chloride and of sine oxide in cintments. Apt.delo 4 no.1:32-33 Ja-F *55 (NEMA 8:4)

1. Is kafedry analitioheakoy khimii Olesskogo farmatsevticheakogo instituta Ministerstva sdravookhraneniya SSSE.
(MINGURY,

ammonabasic mercuric chloride, determ. in cintments)

determ. of amonobasic mercuric chloride & sinc exide in) (ZINC CXIDE, determination, in cintments)

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PORTNOV, A.I. otvetetvennyy redaktor; KNIZHKO, P.O., redaktor; KRAMAREKO, V.F., redaktor; RAMAREKO, M.A., redaktor; PORTNOV, G.P., redaktor; ROZENBERG, M.A., redaktor; SAVITSKIY, I.V., redaktor; TROTSENKO, A.G., redaktor; SHELUD'KO, V.N., redaktor; VAYSMAN, G.A., redaktor;

#PT 時後中華的中國軍 性理學問題問題對在問題問題 | [22]其次行題於28% (4.4)

[Problems in pharmacy; a collection of scientific papers from pharmaceutical schools of the Ukraine] Nekotorye voprosy farmatsii; sbornik nauchnykh trudov vysehikh farmatsevticheskikh uchebnykh savedenii Ukrainskoi SSR. Kiev, Gos. med. isd-vo USSR, 1956.
366 p.

MEDVEDEVA, M.B., redaktor; GIMERTEYN, A.D., tekhnicheskiy redaktor

1. Ukraine. Ministerstvo sdravookhraneniya. (PHARMAOY)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723320011-2"

TROTERIKO, A.G., otv.red.; PORTNOV, A.I., prof., red.; GORBOV, T.P., red.; YMYDOKINOV, D.Ya., red.; KNIZHKO, P.O., red.; KORCHIESKIY, N.O., red.; LESHCHIESKIY, A.F., red.; LYASHENKO, S.S., red.; ROZENBERG, N.A., prof., red.; SAVITEKIY, I.V., prof., red.; SHKLUD'KO, V.M., red.;

[Research in the field of pharmacy] Issledovaniis v oblasti farmatsii. Pod obshchei red. A.I.Portnova. Odessa, N-vo shdavookhraneniia USSR, 1959. 314 p. (MIRA 13:6)

CONTRACTOR OF THE PROPERTY OF

1. Eaporoshakiy gosudarstvennyy farmitsevticheskiy institut. 2. Kafedra organicheskoy khimii Odesekogo gosudarstvennogo farmitsevticheskogo instituta (for Frotsenko). 3. Kafedra farmitsevticheskoy khimii
Odesekogo gosudarstvennogo farmitsevticheskogo instituta (for Portnov).

4. Kafedra neorganicheskoy i sudebnoy khimii Odesekogo gos.farmatsevt.
instituta (for Yevdokimov). 5. Kafedra analiticheskoy khimii Odesekogo
gos.farmatsevt.instituta (for Knishko). Kafedra marksisma-leninisma i
organisatsiya farmiela Odesekogo gos.farmatsevt.instituta (for Korchinskiy). 6. Kafedra biokhimii Odesekogo gos.farmatsevt.instituta (for
Leshohinskiy). 7. Kafedra farmakognosii i tekhnologii leharstvennykh
form i galenovykh preperatov Odesekogo gos.farmatsevt.instituta (for
Lyashenko). 8. faveduyashohiy kafedroy fisiologii i farmikologii Odesekogo gos.farmatsevt.instituta (for Rosenberg). 9. Zaveduyushohiy kafedroy
biokhimii Odesekogo gos.farmatsevt.instituta (for Savitakiy). 10. Kafedra farmakognosii i botaniki Odesekogo gosudarstvennogo farmatsevtioheskogo instituta (for Shelud'ko).

(PHADUACY)
APPROVED FOR RELEASE: 06/19/2000

HATCH COUNTY

CIA-RDP86-00513R000723320011-

AUTHOR: Knishko, R. SOV/107-58-2-32/32 TITLE: Hungarian Electronic Equipment (Vengerskoye priborostroyeniye) PERIODICAL: Radio, 1958, Mr 2, pp 62-63 and p 3 of cover (USSR) ABSTRACT: The article contains a review of electronic equipment manufactured by Hungarian enterprises, which was displayed at an exhibition in Moscow in December 1957. There were electronic instruments for the textile, food and metal industry, an electrocardiograph, a device for testing combustion engines, a device for measuring the magnetic properties of steel and a number of other scientific instruments, such as radiation meters, dosimeters, PH indicators, various types of frequency meters, electrical measuring instruments. According to a statement of the director of the Budapest radio plant "Orion-EMG", Laslo Kishkapushi, this plant produces different types of microwave generators in the ranges Card 1/2

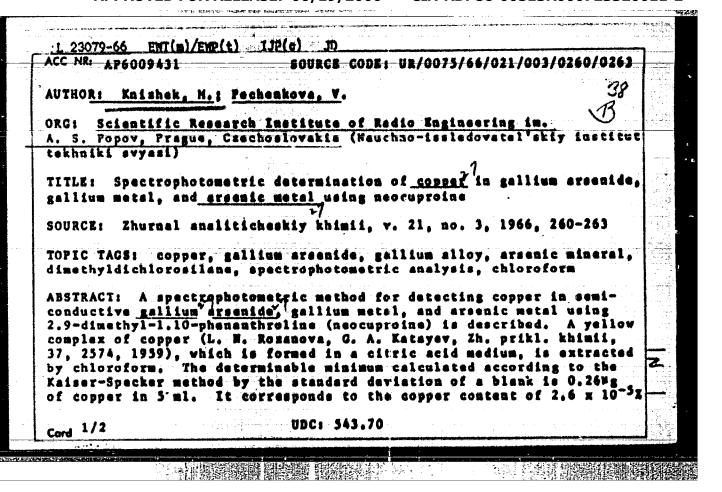
Hungarian Electronic Equipment

SOY/107-58-2-32/32

from 1800-4000 mo, 3500-7000 mo and 6500-10500 mc, wave meters, reference cavity resonators, power meters and other instruments which might be used for radio relay lines or for radar stations. $R_{\rm a}$ dios, TV sets and servicing equipment were also shown at the exhibition. There are 10 photos.

1. Electronic equipment-Hungary

Card 2/2



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KNIZHNIK, G.G.; SHENKAR, A.S.; KAL'METYER, A.F.

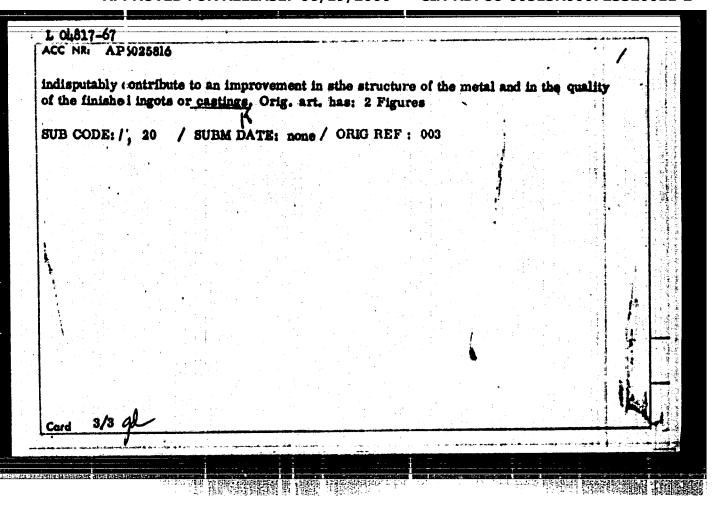
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Design of frames, statically indeterminate relative to the total lateral forces, by means of the EMSS-7 model. Vych. i org. tekh. v stroi. i proekt. no.3:51-56 '64. (MIRA 18:10)

1. Kiyavskoya otdalaniya Vsasoyuznogo gozudarstvannego proyaktnogo instituta stroitalistva elaktrostantsiy.

04817-67					-
CC NR: AP6025816	(A,N)	SOURCE CODE:	UR/0128/66/00	0/005/0037/0038	
UTHOR: Lavi. L.	I. Dodtor of tech	nical sciences); <u>Knizh</u>	-il- A A /85		
. M. (Engineer)		Wort soleines); William	C. D. LENS	(meer); Masian,	
				35	
RG: none				B	
ant B. Delak at al					1
IA	rasonic Vibrations	on the structure and	properties of ti	se aluminum alloy	
			,	27	
OURCE: Liteynoye	proizvodstvo, no.	5, 1966, 37-38			
				•	
OPIC TAGS: degas	ilier, aluminum al	lloy, ultrasonic effect	, molten metal	/ AIA aluminum	
lloy, UZD-200 M de	gasilier, EM-3 el	ectron microscope		6	
BSTRACT: To dete	rmine the effect of	f ultrasonic treatment		male of AT 4 plums	
ım alloy (9.44% 81,	0.24% Mg. 0.28%	Fe, 0.36% Mn, 0.04	9% Ti. with Al	a the reminder)	
as relined with MnC	Il, and the other p	art treated with ultra-	sound by means	of an UZD-200M	
egasilier at 740°C (t	wice for 6 min eac	oh time, with vi bratic	n amplitude of	16-18 u and fre-	
uency of 18.5 kilo-ci	ps, with an interve	al of 5 min). The mel	was then check	ked for gas content	
	mi test (otepunov, nacimens were sul	B. N., Maslan, L. I	s. Trudy NITI,	vyp. 8, ch. 1,	-
64) and solidified s	hoormore word box	specied to mechanical	Mara will men	noRishino exemi-	
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L 04817-67 ACC NR AP6025816 nation of the fine structure with the aid of an EM-3 electron microscope. For comparison, the portion treated with MnCl, was subjected to similar tests. Findings: microphotographs of the MnCl2-treated speciment reveal distinct inclusions. of 8i in the 81-Al eutectic! Ultrasoundtreated specimens display finer-sized and somewhat spheroidized 8i inclusions; this undoubtedly affects the mechanical properties of the alloy. The macrostructure of the ultrasoundtreated specimens is also much more disperse than that of the untreated or MnCl₂ - treated sp cimens. An analysis of replicas also confirms the dispersing effect of the ultrasound on the structure of the alloy. Ultrasonic treament contributes to the appearance of the surface of particles of fresh melt-filled fissures, cracks and cavernosities, which improves their cohesion with the base metal. The "sonic wind" forming during ultrasonic treatment of the melt, as well as the mixing of the melt in the furnache due heat fluxes, contribute to a more uniform distribution of the dispersed and wetted particles throughout the metal. In the process of the crystallization of the melt these particles serve as additional crystallization nuclei which, in their turn, contribute to a more finegrained structure of the alloy. This may account for the marked increase in mechanical properties of the alloy (oB increases from 27.0 to 29.5 kg/mm² and 0 increases from 3.0 to 8.6%). Thus, the effect of ultrasonic vibrations on the molten alloy may be regarded as a complex process involving the dispersion of inclusions and their uniform distribution throughout the metal, as well as the wetting of dispersed particles in the ultrasonic field and the formation of additional crystallization nuclei. All these factors Cord 2/3



APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723320011-2"

18(7) AUTHORS: SOV/163-58-4-37/47 Bernshteyn, M. L., Knizhnik, G. S. Influence of Cold Hardening on the Physical Properties of TITLE: Technically Pure Iron (Vliyaniye naklepa na fizicheskiye svoystva tekhnicheski chistogo zhelesa) PERIODICAL: Nauchnyye doklady vysshey shkoly. Metallurgiya, 1958, Nr 4, pp 214-219 (USSR) ABSTRACT: This investigation concerned the influence of cold plastic deformation at different states of tension (rolling and drawing) on the change of physical properties of technically pure iron with the following composition: 0.05% C, 0.12% Mn, 0.17% Si, 0.001% S, 0.001% P, 0.00028% Al203. Magnetic permeability of the material in dependence on the field intensity of the magnetizing field $\mathcal{M}(H)$ was measured on an anisometer of the system of N. S. Akulov particularly prepared for these purposes. The following facts were ascertained by the investigation: 1) At great deformations causing a formation of texture the magnetic permeability is reduced. Magnetic permeability of the rolled samples is lower than that of the drawn samples. 2) Coercive force of the rolled samples is greater than that of Card 1/2

Influence of Cold Hardening on the Physical Properties of Technically Pure Iron

SOV/163-58-4-37/47

drawn samples. 3) Electric resistance of the rolled samples is higher than that of drawn sampless. A continuous increase of the electric resistance is, however, observed with an increase in the degree of deformation, 4) The blurring of the diffraction lines on X-ray diagrams taken of samples deformed by rolling and drawing is stronger in drawing than in rolling (at any degree of deformation). This can be explained by the formation of great tensions of the second type and a higher refinement of the blocks in drawing than in rolling. The tensions of the second type - blurring of the X-ray lines. (In the original, distortions and tensions of the second and third types are) 5) It is assumed that the changes of properties ascertained are determined by the fact that the tensions of the third type are greater in rolling than in drawing. There are 4 figures and 1 Soviet reference.

ASSOCIATION: Moskovskiy institut stali (Moscow Steel Institute)

SUBMITTED:

January 7, 1958

Card 2/2

L 44452-66 EWI(m)/T/EWP(t)/ETI IJP(c) JD	6/66/021/006/0887/0893
ACC NR AP6018947	
AUTHOR: Knishnik, G. S.	40
ORG: none	
PITLE: Structure of low-alloy titanium alloys	
SOURCE: Fisika metallov i metallovedeniye, v. 21, no. 6, 1966, 6	387-893
TOPIC TAGS: titanium alloy, crystal structure, crystal structure lattice dislocation, crystal lattice defect, spitaxial growth	
ABSTRACT: An explanation for the stability of plate-like deposi- alloys and the influence of phase boundaries on the mechanism of of titanium is presented. The explanation is supported by the tions of stress field and energy of the epitaxial dislocation hor calculations are based on the function of ?	heoretical calcula-
$\chi = -\frac{\rho}{\pi} B_0 \left[\frac{y_1}{2} \ln \left(\sinh^2 y_1 + \sin^2 x_1 \right) + y_1^2 \right],$	
which satisfies all the requirements of the general theory of el Here p is the width of stress for one dislocation, $y_1 = \pi y/p$; $x_1 = \pi x$ C = shear modulus; $V = Poisson coefficient$; and $b = Burger dispis concluded that the epitaxial boundaries exert a very pronounce$	lacement vector. It
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SOURCE CODE: UR/0125/67/000/001/0047/0048 ACC NRI APTOO4197 (A) Knizhnik, G.S., Teslin, G.P. (Magrace) AUTHOR: (Minister) ORG: none Effect of vibrations on the properties and stucture of brased TITLE: joints Avtomaticheskaya svarka, no. 1, 1967, 47-48 SOURCE: TOPIC TAGS: metal brasing, stainless steel brasing Stainless steel DESILUR TOLON-PROPORTES VIBRATION SINESS, DURACKITYS METAL JOINING, CRAIN STRUCTURE ABSTRACT: Kh18N9T stainless steel specimens were subjected to vibrations of 100 Hz frequency and 0.02 mm amplitude during brazing. It was found that vibrations increased the strength of brazed joints. For instance, joints with a 0.02 mm gap, vibration-brazed with G70NKh brazing alloy, had a strength of 41.5 kg/mm² as compared with 28.5 kg/mm² for untreated . . brazed joints. Microstructural analysis of the specimens revealed a continuous network at the grain boundaries in untreated joints and dispersed particles along the grain boundaries in vibration-treated joints. Orig. art. has's 3 Tigures and 1 table. 13/ SUBM DATE: 22Mar66/ ATD PRESS: SUB CODE: UDC: 621.791.3:539. AND STREET THE PROPERTY OF THE

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L 32973-66 EMP(k)/EMT(m)/T/EMP(W)/ACC NR: AP6017524 (N) AUTHOR: Knishnik, G. S.	EWP(t)/ETI IJP(c) JD/HW SOURCE CODE: UR/0148/66/000/001/01	54/0160
ORG: none	4	41
TITLE: Effect of speed and amount of d	eformation on twinning in titanium	B
SOURCE: IVUZ. Chernaya metallurgiya, n	経過なっていた。 Proceedings of the Artist Control (Artist Control (
TOPIC TAGS: titanium alloy, twinning, crystal orientation	deformation rate, metallographic examin	
sis were used to measure twinning density and Alexander method. A section of an sented as the basis for calculating any (1010). The twinning densities of different speeds and amounts of deformation both variables: for 0.00167 m/sec and	7 to 6000 m/sec) and prior deformation (ed titanium alloys VT-1 (0.22% Fe) and Geron microscopy, metallography and x-re- ity and orientation according to the Ros- elementary twinning nucleus in titanium gular relationships between twin planes ferent planes are tabulated as a function. For OT-4, the twinning behavior de- 1% deformation twinning fringes were of reater deformations at the same speed, ount of twinning decreased but the twin-	my amaly- ii, Dube is pre- and on of dif- pended on bserved the twins
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80Y/97-58-10-8/17

Bondar!, P.B., Knizhnik, L.V., and Yeliseyeva, V.D. AUTHORS:

(Engineers)

Mamufacture, on Stands, of Precast Prestressed Reinforced TITLE:

Concrete Beams (Opyt izgotovleniya predvaritel'no napryazhennykh zhelezobetonnykh balok na stende)

PERIODICAL: Beton in zhelezobeton, 1958, Nr 10, pp 386-388 (USSR)

ABSTRACT: Manufacture of precast prestressed reinforced concrete beams in factory "Stroydetal" Ilr 2 of the . trust "Krivoroshstroydetal'" is described. Hydraulic jack SM-513 (shown in Fig 1) with a capacity of 60 t, was used for tensioning. The stand is 84 m long and 4 m wide. The beams are 18 m long, shaped as in Fig 2. The beam was designed by Khar kov branch of Promstroyproyekt. At present the reinforcement consists of 5 mm diameter high tensile, cold rolled wires of standard profile
UMTU 4987-55. A detailed description of the concrete
vibrator I-116 is used. Curing begins at a temperature
of up to 7000 for a duration of 4 hours: the curing
itself is carried out at the same temperature for 14
hours and during termination of couring the temperature hours, and during termination of curing the temperature drops down to 20°C over a period of 6 hours. The reinforcements are cut by means of a metal cutting

Manufacture, on Stands, of Precast Prestressed Reinforced Concrete
Beams

disk as illustrated in Fig 3. This is powered by
electric motor I-116 of 36 W and 2750 r.p.m. Fig 4
shows the lifting of the finished beam by means of a
bridge crane of 5 t capacity.
There are 4 figures and 1 table.

Card 2/2

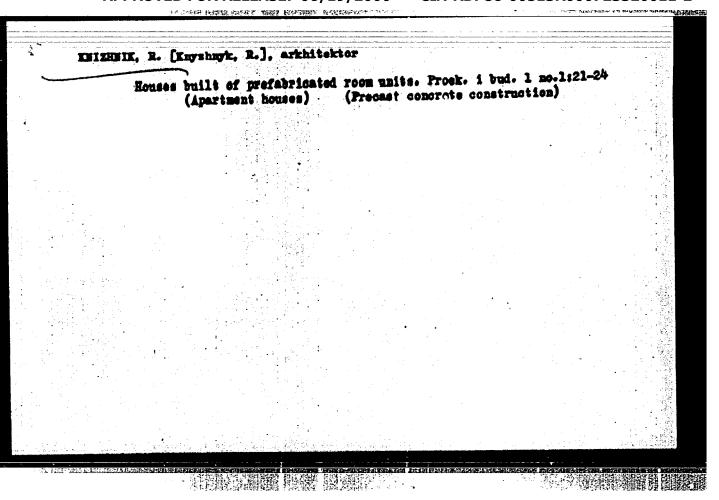
PODINKER, Yanaron Yakovlevich; KNIZHNIK, Leonid Veniaminovich; KUDRYAVTSEV, Anatoliy Aleksandrovich; LAVIDOVICH, Mikhail Borisovich

[Preparing prestressed trusses in cassette forms; practices of the Poltava Plant for Reinforced Cororete Elements No.1] Isgotovlenie predvaritel'no napriashemykh form v kassetnoi opalubke; opyt Poltavskogo savoda shelesobetomykh konstruktsii no.1. Moskva, Gosstroiizdat, 1963. 24 p. (MIRA 17:9)

1. Moscow. Nauchno-issledovatel'skiy institut organisatsii, mekhanisatsii i tekhnicheakoy pomoshchi stroitel'stvu.

2. Glavnyy tekhnologo Poltavskogo kombinata stroitel'noy industrii, Poltavskaya oblast' (for Podinker). 3. Nachal'-nik proisvodstvenno-rasporyaditel'nogo upravleniya Glavnogo upravleniya po shilishchmomu grashdanskomu stroitel'stvu v gorode Khar'kove po Poltavskoy oblasti (for Knishnik).

4. Nachal'nik Poltavskogo savoda shelesobetonnykh konstruktii No.l (for Kudryavtsev). 5. Glavnyy spetsialist otdela eksperimental'nogo stroitel'stva tresta "Orgtekhstroy" Glavnogo upravleniya po shilishchmomu grashdanskomu stroitel'stvu v gorode Khar'kove (for Davidovich).



生产的使用的强压的可以有效的现在分词 机构成的模式 经可存取的的经验证券

VINOGRADOV, Tu.M.; KHIZHNIK, S.O.; ANDROSOV, N.N., neuchnyy sotrudnik

Burnishing as a means for increasing the hardness of collector copper. Elak. i tepl. tiaga 7 no.10:11-12 0 163.

(MIRA 16:11)

1. Ankovoditel' laboratorii Ural'skogo otdeleniya Vseseyusnogo nauchno-issledovatel'skogo instituta shelesnodoroshnogo transporta Ministerstva putey soobshcheniya (for
Vinegradov). 2. Glavnyy insh. depo Kurgan (for Knishnik).
3. Ural'skoye otdeleniye Vsesoyusnogo nauchno-issledovatel'skogo instituta shelesnodoroshnogo transporta Ministerstva
putey soobshcheniya (for Androsov).

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723320011-2

KNIZHNIK, V.

AID P - 1004

Subject : USSR/Aeronautics

Card 1/1 Pub. 58 - 5/16

Author : Knizhnik, V., Senior Instructor Pilot

Title : Educational aid in the theory of flight

Periodical: Kryl. rod., 1, 9-10, Ja 1955

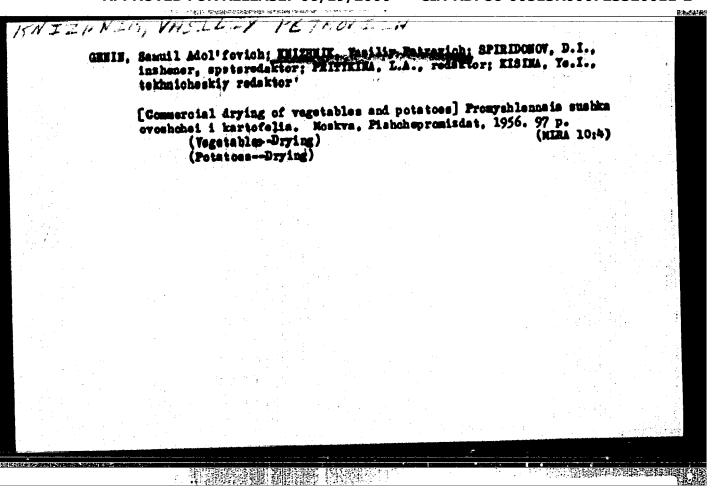
Abstract : The author describes in detail a visual aid used in teach-

ing the theory of flight. The apparatus shows changes of the position of the aircraft caused by movements of the control column. A special screen shows curves of required and available power for a given angle of attack. Other flying data appear on the sides of the screen. Diagrams,

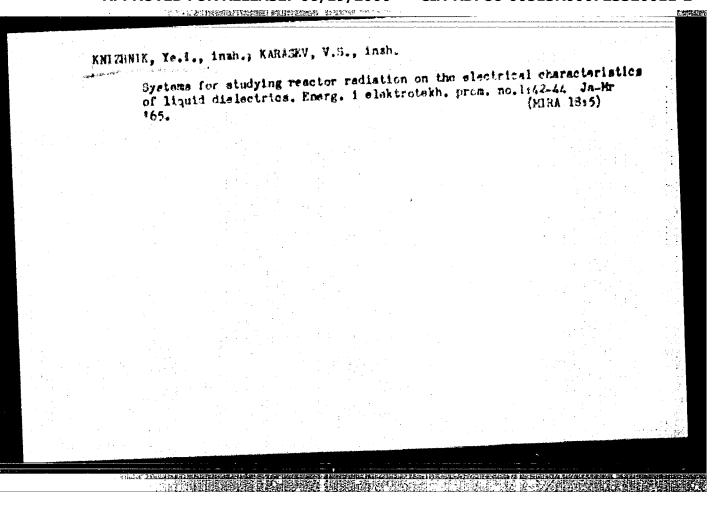
photos.

Institution: Central Aeroclub of the Ukrainskaya SSR

Submitted : No date



"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723320011-2



I-13

KNIZHNIK, YE.V.

USSR/Chemical Technology -Chemical Products and Their

Application. Food Industry.

Abs Jour

: Ref Zhur - Khimiya, No 1, 1958, 2995

Author

: Slepchenko, I.R., Knishnik, Ye.V., Pirayeva, L.A.

Inst

: Moscow Technological Institute of the Most and Dairy

Industry

Title

: Production of Calcium Alginate Films and Their Utilization

in the Freezing of Meat.

Orig Pub

: Sb. stud. rabot Mosk. tekhnol. in-ta myas. i moloch. prom-

ati, 1956, No 4, 39-46

Abstract

: For contact freezing of meat a simple crocedure has been developed for obtaining a protective film directly on the

surface of the product. Neat cuts (1 kg) were immersed, at 18-20°, for several second in 15% solution of Ma-alginate. After excess solution had drained off the samples

Card 1/2

. USSR/Chemical Technology - Chemical Products and Their Application. Food Industry.

I-13

Abs Jour

: Ref Zhur - Khimiya, No 1, 1958, 2995

were transferred for 3-5 minutes in a 3.5% solution of CaClo. In order to impart elasticity to the thus formed calcium alginate film, the samples to be stored were immersed in a 10% solution of glycerol. Samples coated with the film were frozen in brine, at 230, and in a refrigeration chamber, at -250. It was found that in contact freezing of meat the duration of the process is decreased by 4 times, as compared with freezing in an air medium. On freezing of meat in a calcium alginate film losses in weight are reduced by approximately 4 times; on defrosting no losses of meat juice were observed to occur, the meat has a good color and normal properties

PRESENTATION OF THE PROPERTY OF STREET PROPERTY OF THE PROPERT

Card 2/2

STARIKOVICH, S. K., KHIZHHIK. Z. B.

Gages

Colored-light and sound signals for indicating the water level in steam boilers. Prom. energ., 9, No. 4, 1952.

Fonthly "ist of Russian Accessions, Library of ongress, June 1952. UNCLASSIFIED.

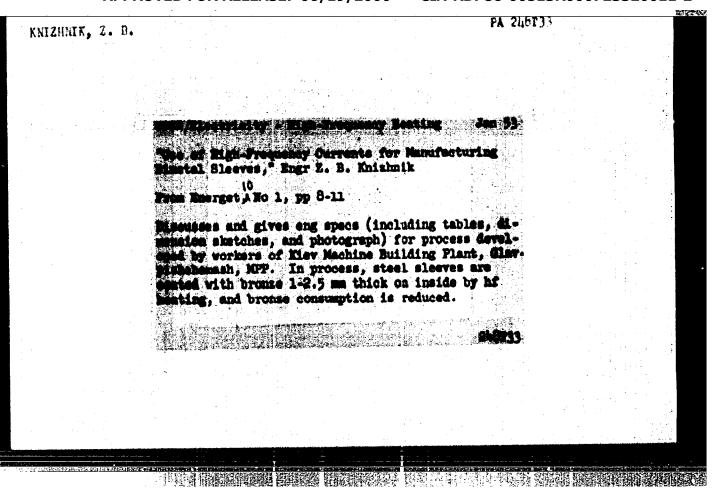
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2. USSR (600)										
4. Boilers										
7Facilitating Prom. energ.	the assem	bly of the shell 1952	ll in buil	ding	cylind	rical	vessel	•	12 12 14 14 14 14 14 14 14 14 14 14 14 14 14	
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APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723320011-2"

- STARIKOVICH, S. K. and MIZHNIK, Z. B.
- USSR (600)
- 7. Electromechanical rolling of pipes. Prom. energ. 9 No. 11 , 1952.

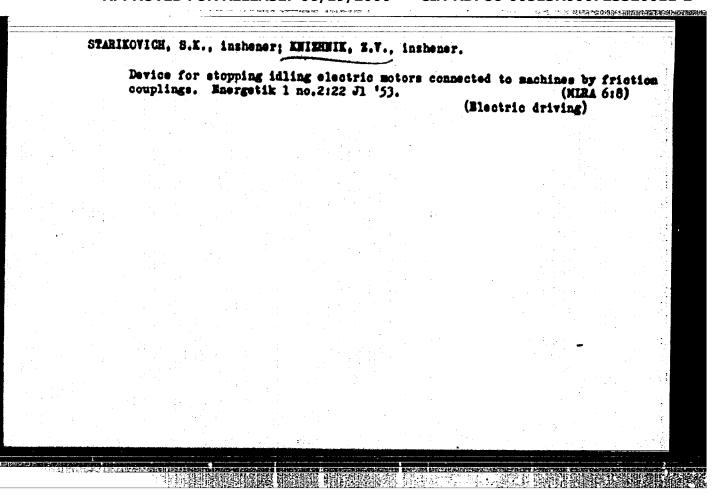
Monthly List of Russian Accessions, Library of Congress, Fabruary

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723320011-2



KNIZHNIK, Zh.P. [Knyshnyk, Zh.P.]

Dynamics of the development of blue-green algae and bacteria in ponds of the Kiev region. Mikrobiol. shur. 26 no.5:31-36 '64. (MIRA 18:7)



KNIZHNIKOV, A. P.

KNIZHNIKOV, A. F. -- "Methods of Prinary Working of Virgin Peat-Bog Soils (Using as an Example the Kolkhoz imeni Michurin, Glussk Rayon, Minsk Oblast)." Acad Sci Belorussian SSR. Inst of Soil Improvement, Water and Marsh Economy. Minsk, 1955. (Dissertation for the Degree of Candidate in Agricultural Sciences)

SO: Knizhnaya Letopis!, No 1, 1956

The state of the south of the state of the s KNILHNIKOV USSR/Soil Science. Tillage. Land Reclamation. Erosion. Abs Jour: Ref Zhur-Biol., No 6, 1958, 24809. Author : Mishnikov, A.M. (Cand agric Lei) Inst 1 The Effect of Various Methods of Initial Tillage of Peat-Title Dog Virgin Soils on the Change of Some Physical and Chemical Properties and the Yield of Agricultural Crops. Orig Pub: Tr. Delorusak, n.-i. in-ta melior. i vodn. kh-va, 1956, 7, 168-181. Abstract: The change of the properties of peat-bog soils of the Malinovskiy marsh, Minskoy Oblast, under the in-fluence of initial tillage, was studied. The peat-bog soils that were explored have formed accurulations of sedge-reedy peat, decayed in the upper part by 35%. In the soils that were tilled to the depth : 1/3 Card

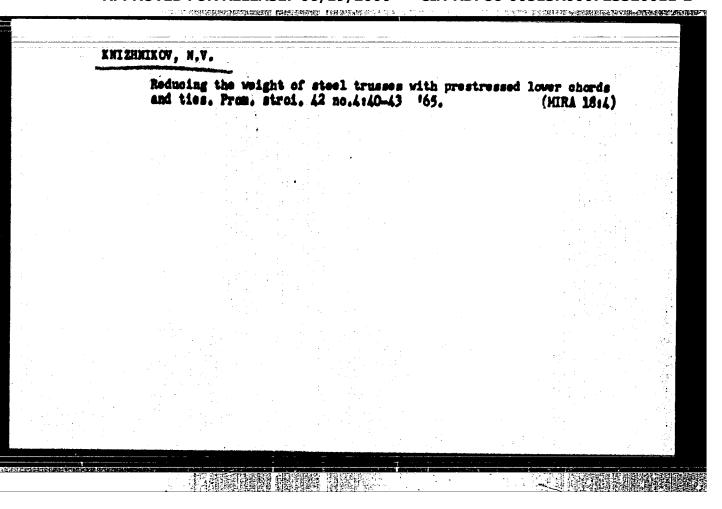
APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723320011-2"

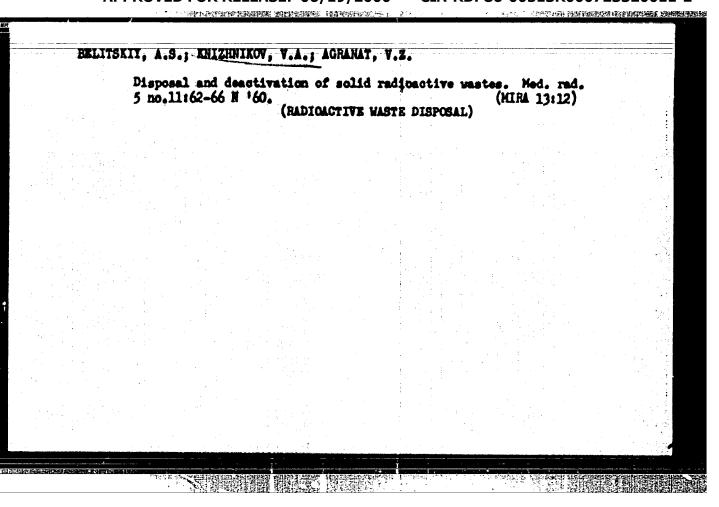
CATEGORIES STREET, CONTROL OF CON

LYUBINSKIY, N.I.; SHIRYAYEV, I.N.; KNIZHNIKOV, M.G.; GLADYSHEV, S.S.; KIVER, V.F.; SPARIN, V.I., agronom

Use advanced cultivation practices for sunflowers. Zemledelie 27 no.4147-51 Ap 165. (MIRA 18:4)

1. Orenburgskaya chlastnaya sel'skokhozyaystvennaya opytnaya stantsiya (for lyubinskiy). 2. Predsedatel' kolkhoza imeni Kirova, Oktyabr'skogo rayona, Orenburgskoy oblasti (for Shiryayev).
3. Predsedatel' kolkhoza "Pamyat' Il'icha" Dinskogo rayona, Krasnodarskogo kraya (for Knizhnikov). 4. Glavnyy agronom kolkhoza "Pamyat' Il'icha", Dinskogo rayona, Krasnodarskogo kraya (for Gladyshev).
5. Starshiy agronom Pologskogo proizvodstvennogo upravleniya, Zaporozhakoy oblasti (for Kiver).





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8/089/61/010/003/007/021 B102/B205

AUTHORS:

Sivintsev, Yu. V., Knizhnikov, V. A., Telushkina, Ye. L.,

Turkin, A. D.

TITLE:

Study of the radioactive contamination of air and of the Neva river during the time in which the atomic ice-breaker

"Lenin" was anchored

PERIODICAL:

Atomnaya energiya, v. 10, no. 3, 1961, 253-258

TEXT: This is a report on an investigation of the radioactive contamination in the neighborhood of the place where the atomic ice-breaker "Lenin" was anchored in the Neva river, with its atomic engine being in operation. The investigation included the atmosphere, the river water, and the fauna and flow in the surrounding area. The experiments were begun on August 6, 1959 and finished on September 14, 1959. The concentration of radioactive gases was also examined in closed rooms in the ship's central part. Results are discussed in the introduction. Measurements were made with cylindrical counters of the type CTC-5 (STS-5) and with end-window counters of the type EM-50 (BFL-50) which measured concentrations of up to 2.10-11 curie/1 and

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Card 1/3

Study of the ...

8/089/61/010/003/007/021 B102/B205

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10⁻¹⁰ curie/1 (Ar^{41}). Radioactive aerosols were determined with $\Phi\Pi$ (PP) filters, the activity of which was measured in the laboratory. In the central parts of the ship, radioactivity caused by Ar41 did not exceed 4.10-10 curie/1, was 10-11 curie/1 on the average. These values amount to 1% of the permissible maximum dose in working rooms. In addition, the radioactivity of air leaving the Grossegelmast (sic!) was measured. Its maximum activity was 10-9 curie/1, and the average was 2.10-10 curie/1 referred to one atomic unit with 100% performance. This level was reached on September 5, 1959 when the three atomic units operated with 45, 40, and 20% performance. As 70,000 m3 of air were exhausted in one hr, the emission of one unit with 100% performance was 0.014 curie/hr. Investigations in the case of a leakage of the primary cooling circuit showed that radioactivity in the servodrive rooms reached a level of 3.10-8 curie/1 and was chiefly caused by short-lived fission products, such as Kr85, Kr88, and Xe¹³⁵ ($T_{1/2} = 5-7$ hr). The concentration of β -active aerosols in the central rooms of the ship never exceeded the background values of the natural radioactivity. The observed fluctuations in the radioactivity of air, river water, fauna and flora in the neighborhood of the ship had a Card 2/3

- NASSAM CHEM SECTION

Study of the ...

3/089/61/010/003/007/**021** B102/B205

merely seasonal character and did not depend on the stay of the ship and the operation of her reactors. Pertinent measurements were made from June 15 to September 14. These seasonal fluctuations are held responsible for the fact that the radioactivity of air, water, fauna, and flora prior to the tests of the units of the atomic ice-breaker was higher than during the tests. Numerous data on the seasonal fluctuations which dropped to a minimum in August, and results of measurements are discussed. The experiments have proved unambiguously that the ice-breaker operates without any hazard, and that there is not the slightest danger of contamination on board the ship during the operation of its reactors. Neither the crew of the ship nor the vessels following the ice-breaker are exposed to the action of radioisotopes. There are 2 figures and 3 Soviet-bloc references.

SUBMITTED:

September 7, 1960

Card 3/3

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723320011-2

KNTZHNIKOV, V.A.

AID P - 3639

Subject

: USSR/Medicine

Card 1/1

Pub. 37 - 3/18

Author

Enishnikov, V. A., Scientific Worker

Title

Correlation between fluorine content of water, fluorosis

and caries

Periodical: Gig. i. san., 10, 13-17, 0 1955

THE PERSON OF THE PARTY OF THE

Abstract

: The effect of fluorine in drinking water on the spotting of teeth enamel and on caries is discussed, on the basis of investigations made in the central Kazakh SSR, in a place of fluorosis epidemic. Illus., tables, diagram.

Bibliography.

Institution:

Kazakh Institute of Epidemiology, Microbiology and

Hygiene

Submitted: Mr 25, 1955

ENICHMINOY, Y.A.; RAVIORNYA, L.A.

Prevention of intestinal infections on new state forms in Kokohetav Province. Zdrav.Kasekh. 16 no.11:35-36 !56. (MZA 10:1)

1. Is knsakhskogo instituta epidemiologii, mikrobiologii i gigiyeny (direktor - 2.A.Roshohina) (KOKORNYAY PROVINCE--INTESTIMES--DISEASES)

EMIZHMIKOV, V.A., nauchnyy sotrudnik.

Sanitary and hygienic characteristics of postwar dwellings with many stories in Karaganda. Gig. 1 san. 21 no.1:48-50 Ja '56

(MIRA 915)

1. Is sektora gigiyeny Kasakhakogo instituta epidemiologii, mikrobiologii i gigiyeny.

(HOUBING

in Karaganda, Russia, sanitary & hygienic aspects in dwelling with many floors)

(BAJITATION

in Karaganda, Russia, in dwellings with many floors)

EARATKINA, I.L. ERISMICOT. T.A.

Distribution of enterotexic staphylococcal strains in Alm-Ata.
Oig. i san. 21 no.9:96 \$ '56. (MLRA 9:10)

1. is Easakhakogo instituta epidemiologii mikrobiologii i gigiyeny.

(AIMA-ATA-STAPHYLOCOCCUS)

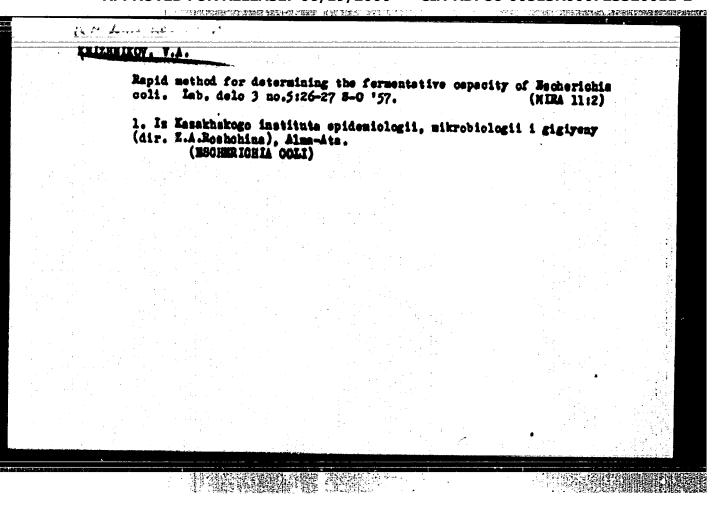
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THE REPORT OF THE PROPERTY OF

KHIZHHIKOY, V.A.; KARATKIMA, T.L.

Biological tests for enterotoxin.Lab.delo 3 no.4:35-37 J1-Ag 157. (MIRA 10:8)

1. Is Kasakhakogo instituta epidemiologii, mikrobiologii i gigiyeny (rukovoditel' raboty - dotsent G.F.Pollak) (TOXINS AND ANTITOXINS)



USSR / Microbiology. Hygienic Microbiology.

7-4

Abe Jour

: Ref Zhur - Biol., No 20, 1958, No. 90866

Author

! Knizhnikov, V. A.

Inst

: Not given

Title

: An Accelerated Mathod for Determination of Fermentation

Possibilities of Intestinal Rods

Orig Pub

: Labor. delo, 1957, No 4, 26-27

Abstract

: 1 - 2 drops of Eijkman's medium with agar, melted and cooled to 45 degrees, were placed on the surface of colonies growing on Endo medium. After 20 - 30 minutes, and sometimes after 2 - 4 hours (at 43 degrees), bubbles of gas were formed in the drops. The method was applicable even for colonies developing on membrane filters. The results of the investigation by the rapid method agreed with a similar standard method. The suggested method curtails by approximately 50-fold the expenditure

Card 1/2

USSR / Microbiology. Microbes Pathogenic to Man and F-5
Animals. Bacteria. Bacteria of the Intestinal
Group.

Abs Jour: def Zhur-Biol., No 16, 1958. 72117.

Author: Knizhnikov, V. A.

Inst: Not given:

Title: Gram-Negative and Mannite-Negative Baccilli Isolated From Feces and External Medium During ToxicInfected Illness of Newborn.

Orig Pub: Zh. mikrobiol., epidemiol. i immunobiologii, 1957, No 5, 81-85.

Abstract: During the investigation of an outbreak of illnesses with a toxic-infected character among the
newborn of a maternity hospital in Alma-Ata, 10
strains were isolated of gram-negative active
bacilli, part of which formed a yellow-brown

Card 1/3

39

USSR / Microbiology. Microbes Pathogenic to lan and F-5
Animals. Bacteria. Bacteria of the Intestinal
Group.

Abs Jour: Ref Zhur-Biol., No 16, 1938, 72117.

Abstract: pigment in the 2-4th day of growth. According to the character of growth in a broth, ability to form H₂S, and their relation to arabinose, the strains are divided into two groups. Properties of the strains after numerous passages in vivo and in vitro for 6 months did not change. Live and boiled cultures were agglutinated with Grigor'yov-Shig, Flexner and Sonne serums in dilutions 1:50 - 1:200. During immunization of the rabbits with isolated cultures, agglutinating serums were obtained with a titer of 1:5,400. As regards ser-

ological properties, the strains were divided into two groups corresponding to their distribution

Card 2/3

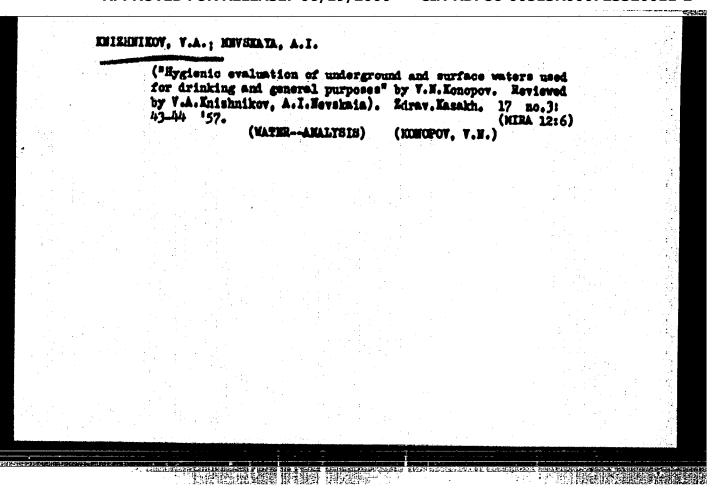
USSR / Microbiology. Microbes Pathogenic to Man and F-5 Animals. Bacteria. Bacteria of the Intestinal Group.

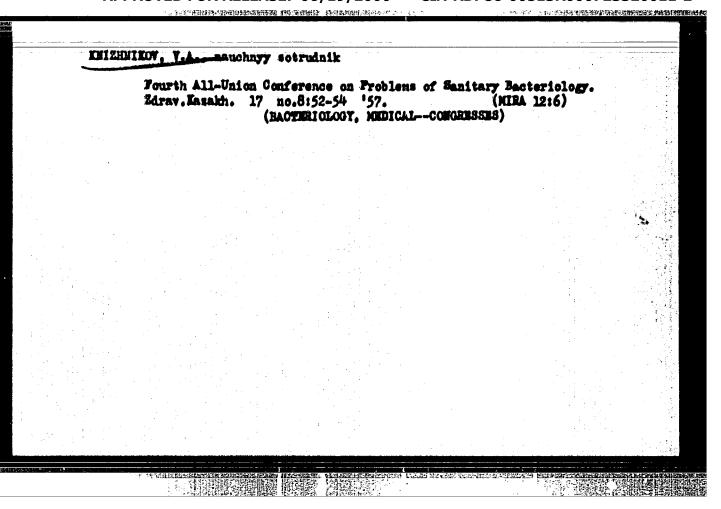
Abs Jour: Ref Zhur-Biol., No 16, 1958, 72117.

Abstract: according to cultural-biochemical characteristics.
All strainswere pathogenic for mice. The authors place the strains in the family of Bacteriae (p. Bacterium, after Krasil'nikov), where they must occupy an intermediate position between Salmon-elleae and Shigellae. Determination of their role in the appearance of toxic-infected illnesses needs further study. -- N. A. Gruzman.

Card 3/3

40





·世纪的图像段时间建筑的影響的數數 制度多距離 是是有效的点点。

Criteria of pathogenicity and enterotoxism of staphylococci. Thur. nikrobiol.epid. i imun. 28 m.l:80-80 Ja '57. (NIRA 10:3) 1. In Essakhakogo instituta epidemiologii, mikrobiologii i gigiyeny. (NIUROGOCOCUS FYCOMMS, pathogen. & enterotoxism (Rus))

KMIZEMIKOV, V.A.

非異國際團 醋酸醇 伊萨特尔

Oran-negative, mennite-negative bacilli isolated from faces and external environment in texic infections of the newborn. Thur. mikrobiol.epid. i immun. 28 no.5:81-85 My '57. (MIRA 10:7)

1. Is Kasakhakogo instituta epidemiologii, mikrobiologii i gigiyeny. (IMPMOTION, bacteriol.

isolation of gram-negative & mannite negative bact. in toxic infection in newborn)

(BACTERÍA

gram-negative & mannite negative, isolation in toric infect. in newborn)

KNIZHNIKOV, V.A., Cand Wed Sci -- (diss) "Fluoridation in Kazakhstan and the signature of fluoride in drinking water for the health of the population." Alma-Ata, 1958, 12 pp (Kazakh State Med Inst) 2 300 copies. List of author's work at end of text (11 titles) (KL, 50-58, 129)

- 128 -

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723320011-2

Country Catogory	: USSR F ! Hicrobiology-Microbes Pathogenic for don and Animal				
Abs. Jour	Ref Zhur - Biol., No.19, 1958, 86140				
Author	1 Knishnikov, V.A. 1 The Problem of the Survival of Dysentery "acilli in the Water				
Institut. Title					
Orig Pub.	: Zh. Hikrobiol., upidemiol., i immunobiol., 1956,				
Abstract	No.4, 92-93 Ino abstract				
	사람이 한 통한 음식에 급하면 가장 없는 것 않는 수있다. 그렇게 나는 것이 되었다. 당하는 사람은 현대가 있는 사람들 통한 기계를 보는 것이 가장 되었다.				
Card:	1/1				
<u> Linnania </u>	<u> </u>				

KEINHEIKOV, V.A., menchayy sotrudnik

Affect of natural waters with a high fluorine content on certain health indicators in the adult population. [with summary in Inglish].

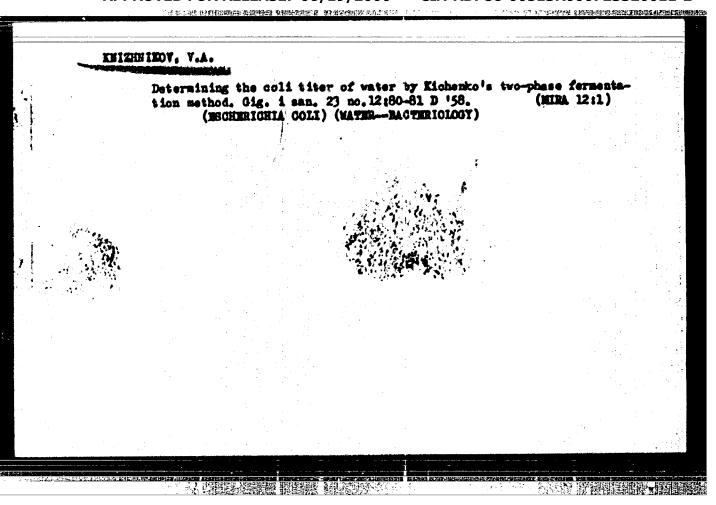
Gigit san, 23 no.8:18-23 Ag 158 (MIRA 11:9)

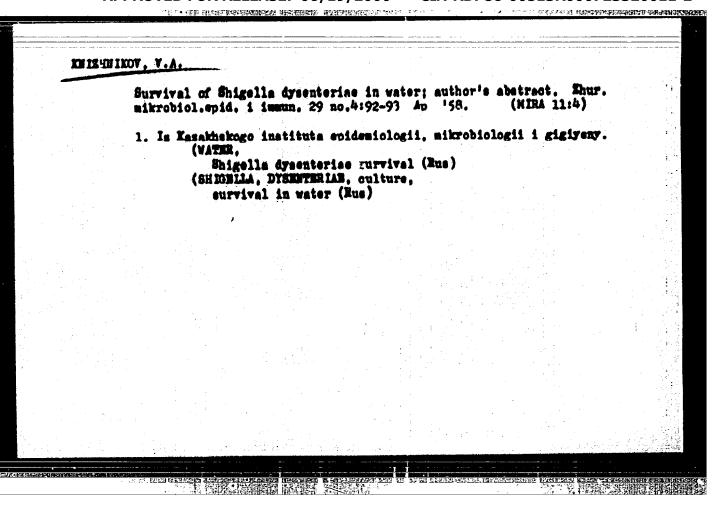
l. Is sektora gigiyeny Kasakhakogo instituta epidemiologii, mikrobiologii i gigiyeny.

(PROCRIES,
in water supply, eff. on physicl. indices in adults
(Rus))

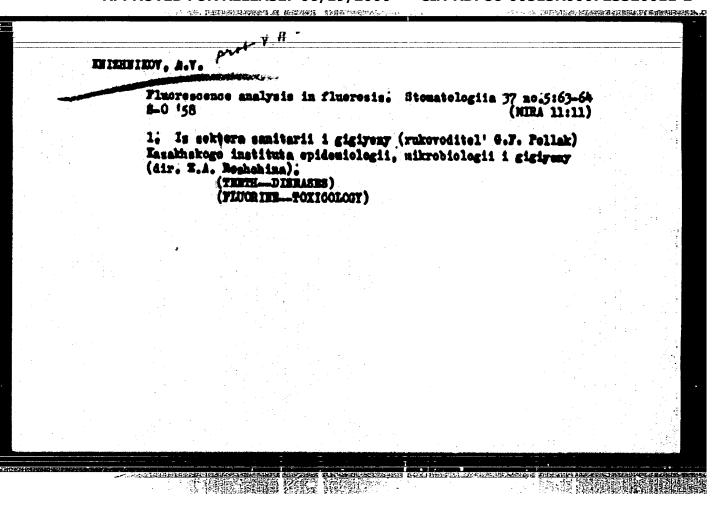
(WATER SUPPLY

fluoride content, eff. on physical indices in adults (Rus))





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MIRHITOV, V.A.	
Effect of fluoridation on certain Emr.wikrebiol.epid. i immun. 29 m	immunological reactions. s.5:113-117 Ny '58 (MIRA 11:6)
1. Is Kasakhskogo instituta epider gigiyeny.	niologii, mikrobielogii i
(FLUOR IDATION, eff. on immum. (Pus	
(DOMNITY, eff. of fluoridation	n (Rus))



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KNIZHNIKOV, Y.A., nauchnyy sotrudnik

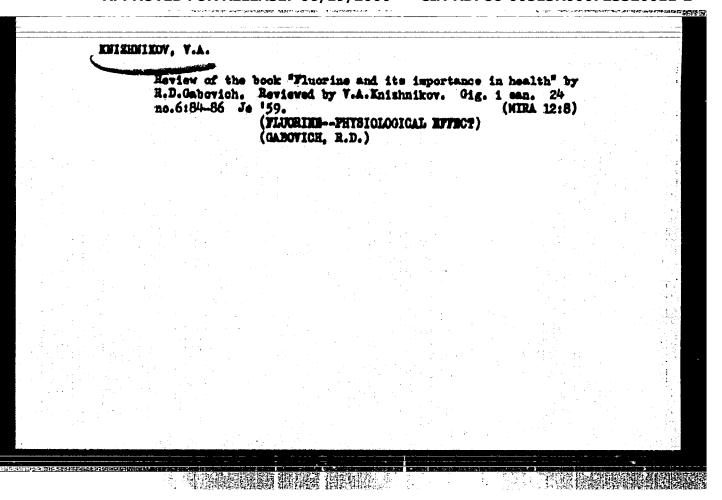
Mffect of potable water with high fluoring concentration on thyroid function [with summary in Maglish]. Gig. 1 san. 24 no.1:20-25 Ja 159. (MIRA 12:2)

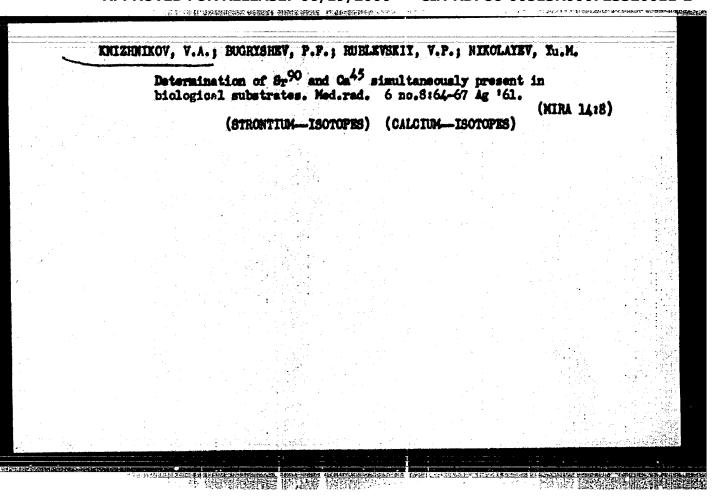
1. Is Kasakhakogo instituta spidemiologii, mikrobiologii i gigiyeny. (FENORIDATION,

eff. of high flouride concentration in water on thyreid funct. in rate (Rus))
(THYROID GLAND, physicl.
same)

RESIDENTIANY, V.A., pauchnys source the mineral composition of potable water and the biological effectiveness of fluorine. Oig. 1 san. 24 no.4: 71-74 Ap 159. 1. Is Kasakhakogo instituta epidemiologii, mikrobiologii i gigiyeny. (VIUNRIMATOR, relation of mineral composition of water to biol. effectiveness (Rms))

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723320011-2"





 KHIZHNIKOV, V.A., kand.med.nauk	
Fluorine and teeth. Edorov'e 7 no.3:22 Mr '61. (FLUORINE—PHYSIOLOGICAL EFFECT) (TRETH—DISEASES)	(MIRA 1413)

Influence of fluorine on the concentration of Sr-90 in the rat skeleton. Med.rad. no.11s58-62 161. (MIRA 14:11) (STRONTIUMISOTOPES) (FLUORINEPINEIGLOGICAL EFFECT) (BONES)	KNIZHNI	KOV, V.A.					
			on the cone no.11:58- 3) (FIJORIK (BONES)	entration of 62 '61. BPHIBIOLOG	Sr~90 in the color of the color	10 IIRA 14:11)	
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S/240/62/000/007/001/001

1015/1215

AUTHOR:

Knizhikov, V.A., Candidate of Medical Science, Balika, Yu. D., Candidate of Medical

Science, and Bugryshev, P., Junior Research Fellow

TITLE:

The effect of chronic administration of Sr⁹⁰ togethr with fluorine traces on the hemo-

polesis in rats

PERIODICAL: Gigiyena i sanitariya no. 7, 1962, 8-11

TEXT: Morphologic studies of the effect of fluorine on the blood have been made until now only on the peripheral blood, and not on bone marrow. The effect of Sr^{90} together with fluorine on hemopoiesis has not been studied at all. These experiments were carried out on 62 albino growing rats. Fluorine was added to water at concentrations of 1.5 mg/l, 4.0 mg/l and 15.0 mg/l. Strontium chloride solution containing $0.01/\mu c$ of Sr^{90} was added to the diet every other day. The experiments with fluorine lasted four and a half months, those with Sr^{90} — two months. Bone marrow was obtained from the femur. Fluorine at conc. of 15 mg/l brought about a decrease in the young WBC in bone marrow. The combined administration of fluorine and Sr^{90} did not bring about summation or potentiation. The presence of 1.5 mg/l fluorine in the water when Sr^{90} was also administered brought about an improvement of hemopoiesis. These results should, however, be reexamined because of statistically insufficient data. There are 2 tables.

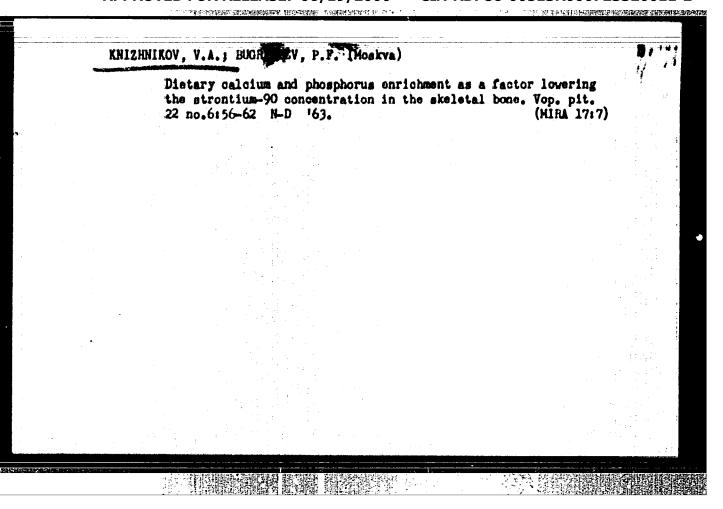
SUBMITTED: Fel

February 5, 1962

Card 1/1

ENIZHNIKOV, V.A., kand. med. nauk; EUGRISHEV, P.F., mladshiy sotrudnik
(Hoskva)

Effect of microquantities of stable strontium on mineral netabolism and the uptake of relocative strontium 90 in the skeleton of rate. Gig. samit. 28 no.2219-25 *63 (HIRA 1712)



KNIZHUIKOV, V.A.

Evaluation of the quality of drinking water in the light of present day hygienic concepts. Nauch.trudy AKKH no.27:3-12 164.

(MIRA 18:5)

1.9. And the latest statement specific statements.

0 L 05802-67 EVI(m) AT6031236

SOURCE CODE: 'UR/0000/65/000/000/0001/0015

AUTHOR: Marey, A. N.; Yartsev, Ye. I.; Knizhnikov, V. A.

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ORG: none

ACC NR

TITLE: Study of extracted teeth as a method of mass control of the amount of strontium-90 in the human organism

SOURCE: USSR. Gosudarstvennyy komitet po ispol'zovaniyu atomnoy energii. Doklady, 1965. Issledovaniye ekstragirovannykh zubov kak metod massovogo kontrolya za soderzhaniyem strontsiya-90 v organizme lyudey, 1-15

TOPIC TAGS: strontium, isotope, strontium isotope, strontium accumulation, tooth strontium

ABSTRACT: A study of the amount of strontium-90 accumulated in human teeth showed that under long-term chronic exposure the ratio between the amount of this isotope in human teeth and the human skeleton does not vary. In adults this ratio does not depend either on age or geographic location. The occurrence of caries or periodontitis has no substantial effect on the amount of the isotope accumulated in the teeth. In amphodontosis a decrease is noted in the amount of strontium-90

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absorbed by the solid tissue of the teeth; however, this fact was not taken into account in determining the ratio of the content of strontium-90 in the teeth and bone tissue. The teeth of children showed greater accumulations of strontium-90 than those of adults. The level of the deposited isotope in children's teeth as in the principal skeletal bones, is inversely proportional to the child's age. The accumulation of the isotope in the solid tissue of milk and permanent teeth takes place both during and after their formation. Orig. art. has: 9 tables. [Authors' abstract]

SUB CODE: 06/ SUBM DATE: none/ ORIG REF: 004/ OTH REF: 007/

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INVENTOR:	Knishniko	v, V. A.					. 4			
ORG: non	•					. :				
TITLE: C	ertificate	of discovery	y. Cla	ss 00 , No.	. 48.					
SOURCE:	Izobreteniy	a, promyshle	mnyye (obrastey,	tovarny	ye znaki	, no. 24	. 1966	5	
TOPIC TAG	S: fluorin	e, fluorine	proper	ty, radio	ection, s	trontium	, strout		etion.	
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ZAITOV, I.R.; EBIROV, R.D.; WIEHRIDOV, Tw.F.

Use of stereophotogrammetric surveying to compile a large-scale geomorphological map of special designation. Vest. Mosk.um, Ser. biol., pochv., geol., geog. 12 no.2:213-222 '57. (NIRA 10:10)

1.Kafedra kartografii Nosbovskogo universiteta. (Photographic surveying) (Cartography)

EAITOV, I.R.; EABIROV, R.D.; EFIREFIKOV, Yu.7.; REVERAROV, A.V.

Large-scale phototheodolite surveying of Tien Shan glaciers in
1955, Test. Mosk, un. Ser; biel., pochv., geel., geog. 12 mo.li
229-235 '57.

1. Kafedra kartografii Moskovskogo gosukarstvennogo universiteta.
(Tien Shan-Olaciers) (Photographic surveying)

98-58-4-13/18

AUTHORS:

f Technical Sciences; Indichenko, I.G. and Knizhnikov.

Yu.F., Engineers

TITLE:

Using Phototheodolites for Obtaining Plans of the Mater Surface in the Spanning of the Angara River (Primeneniye fototeodolita dlya polucheniya planov vodnoy poverkhnosti pri pere-

krytii r. Angary)

PERIODICAL: Gidrotekhnicheskoye Stroitel'stvo, 1958, Ar 4, pp 49-51

ABSTRACT:

The photogrammetric method is being increasingly applied in the investigation of wave formations on seas, lakes and reservoirs. In many cases this method appears to be the only one for registering and measuring the wave relief; this method is also used for investigating the form of the free water surface over the embankment of a river dam. Such was the case in 1956 at the construction of the Irkutsk Hydroelectric Fower Plant, when photogrammetry was applied with a view to obtaining plans of the water surface below the pontoon bridge across the Angara river. The stereo-photography of a water surface of 10 x 150 sq meters was carried out with two phototheodolites "FTM" with an electrically-synchronized shutter-release device; panchromatic photo plates with 100 units (Gost) sensitivity were used, making a total of 18 photos. Each stereo couple was

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Using Phototheodolites for Obtaining Plans of the Sater Surface in the Spanning of the Angara River

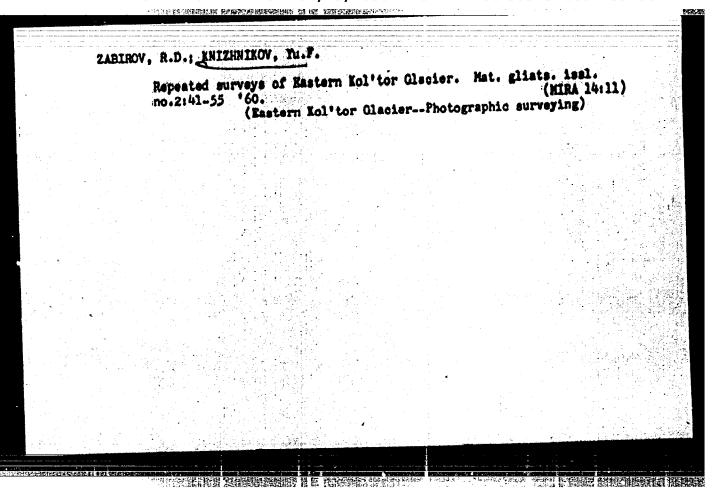
divided into three sections - the first consisting of small waves and surf, the second - of crests and hollows of stabile waves. The photogrammetric plotting of the perspective model of the water surface in the orthogonal plan at a scale 1:300 was done on the large stereo-autograph of Zeiss. Figure 3 shows one of these plans and Figure 4 - the corresponding phototheodolite picture. To avoid blurred photos it is advisable to use a shutter speed of not less than 1/25 sec. Dead angles can be avoided by taking stereo-photos from two basic points with 4 phototheodolites which must be equipped with synchronised shutter release devices. There are 4 figures.

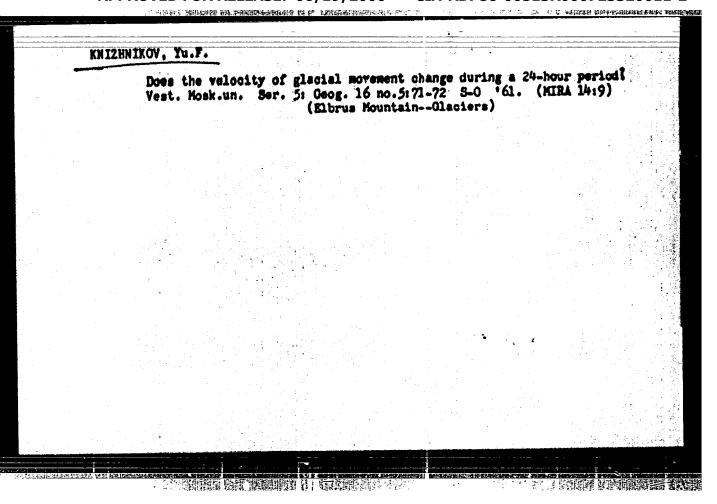
AVAILABLE:

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1. Phototheodolites-Applications 2. Water waves-Analysis





ZABIROV, Rashid Dahamaliyevich, kand. tekhn. nauk; KNIZENIKOV,
Yuriy Firsovich, insh.; ZAITOV, I.R., kand. tekhn. nauk,
Otv. red.; REVINA, Ye.A., red. ind-wa; ANOKHINA, N.G.,
tekhn. red.

[Phototheodolite surveying of the Tien Shan glaciers during
the I.O.I.]Fototeodolitnaia s*enka lednikov Tian-Shania v
period MOG. Frunse, Ind-vo Akad.nauk Kirgisakoi SSR, 1962.
99 p.
(MURA 15:9)
1. Direktor Tyan-Shan'skoy fiziko-geograficheskoy stantsii
(for Zabirov). 2. Laboratoriya aerofotmatodov Moskowskogo
gosudarstremnogo universitata (for Kniphnikov). 3. Zaveduyushchiy laboratoriyay aerofatomatodov Mcskowskogo gosudarstvennogo universitata (for Zabiev).
(Tien Shan-Glaciers)

